

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	693	719/318.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 07:53
L2	40	event near2 drive\$1 same source same target	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:15
L3	1	l2 and l1	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 07:54
L4	5318	718/100-108.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 07:54
L5	2	l2 and l4	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 07:55
L6	10	("4319321" "5315709" "5805832" "5970490" "6029178" "6032147" "6035307" "6085196" "6351761" "6401104").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:06
L7	1	"20020188765"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:09
L8	2	("6279046" "6105147").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:14
L9	885	719/317-318.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:15
L10	1	l2 and l9	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:15
L11	60	event near2 drive\$1 and source same target.ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:17
L12	1	l11 and l4	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:17

EAST Search History

L13	0	l11 and l9	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:17
L14	1163	event near2 drive\$1 and source same target	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:17
L15	16	l14 and l9	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:17
L16	4767879	@ad<="20000606"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:18
L17	4974907	@ad<="20010106"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:18
L18	4	l15 and l17	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/13 08:18
L19	20	("5375070" "5412797" "5485617" "5504921" "5539877" "5724589" "5751914" "5805785" "5937189" "5999986" "6063126" "6212676" "6263498" "6292803" "6330711" "6374293" "6393386" "6532554" "6577597" "6584502").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:30
L20	21424	700/???.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:30
L21	3	l20 and l14 and l17	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:32
L22	14	l14 and l4 and l17	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/13 08:32


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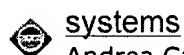
Relevance scale ☐ ☐ ☐ ☐ ☐**1** [An example of event-driven asynchronous scheduling with Ada](#)James V. Chelini, Donna D. Hughes, Leonard J. Hoffman, Denise M. Brunelle
October 1990 **ACM SIGAda Ada Letters**, Volume X Issue 8**Publisher:** ACM PressFull text available: pdf(871.34 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The TARTAR CGN-36/NTU Baseline Development Program (CGN-36) required a preemptive scheduling mechanism that was both efficient and compatible with an Ada implementation targeted for the M68020 processor. As a result, CGN-36 developed an event-driven asynchronous scheduling package functioning as an extension of the selected vendor's (Systems Designers (SD)) Ada Run-Time Environment (RTE). This paper describes: Introduction. Why a standard Ada (rendezvous) approach would not work1. Synchronous ver ...

2 [An example of event-driven asynchronous scheduling with Ada](#)James V. Chelini, Donna D. Hughes, Leonard J. Hoffman, Denise M. Brunelle
July 1990 **ACM SIGAda Ada Letters**, Volume X Issue 6**Publisher:** ACM PressFull text available: pdf(684.77 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The TARTAR CGN-36/NTU Baseline Development Program (CGN-36) required a preemptive scheduling mechanism that was both efficient and compatible with an Ada implementation targeted for the m68020 processor. As a result, CGN-36 developed an event-driven asynchronous scheduling package functioning as an extension of the selected vendor's (Systems Designers (SD)) Ada Run-Time Environment (RTE). This paper describes: Introduction. Why a standard Ada (rendezvous) approach would not work1. Synchronous ver ...

3 [Computing curricula 2001](#)September 2001 **Journal on Educational Resources in Computing (JERIC)****Publisher:** ACM PressFull text available: pdf(613.63 KB) html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**4**[Implicit coscheduling: coordinated scheduling with implicit information in distributed](#)

systems

Andrea Carol Arpaci-Dusseau

August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3**Publisher:** ACM Press

Full text available: pdf(1.83 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In modern distributed systems, coordinated time-sharing is required for communicating processes to leverage the performance of switch-based networks and low-overhead protocols. Coordinated time-sharing has traditionally been achieved with gang scheduling or explicit coscheduling, implementations of which often suffer from many deficiencies: multiple points of failure, high context-switch overheads, and poor interaction with client-server, interactive, and I/O-intensive workloads. I ...

Keywords: clusters, coscheduling, gang scheduling, networks of workstations, proportional-share scheduling, two-phase waiting

5 IS '97: model curriculum and guidelines for undergraduate degree programs ininformation systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1**Publisher:** ACM Press

Full text available: pdf(7.24 MB)

Additional Information: [full citation](#), [citations](#)6 Flexible cross-domain event delivery for quality-managed multimedia applications

Christian Poellabauer, Karsten Schwan

August 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 3**Publisher:** ACM Press

Full text available: pdf(389.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To meet end users' quality-of-service (QoS) requirements, online quality management for multimedia applications must include appropriate allocation of the underlying computing platform's resources. Previous work has developed novel operating system (OS) functionality for dynamic QoS management, including multimedia or real-time CPU schedulers and OS extensions for online performance monitoring and for adaptations, as well as QoS-aware applications that adapt their behavior to gain additional ben ...

Keywords: Event delivery, dynamic code generation, operating system, quality management, quality-of-service, real-time events

7 Special issue: AI in engineering

D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92**Publisher:** ACM Press

Full text available: pdf(8.79 MB)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six

countries. About half the papers were received over the computer network.

8 A constraint-based application model and scheduling techniques for power-aware systems



Jinfeng Liu, Pai H. Chou, Nader Bagherzadeh, Fadi Kurdahi

April 2001 **Proceedings of the ninth international symposium on Hardware/software codesign**

Publisher: ACM Press

Full text available: pdf(592.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New embedded systems must be *power-aware*, not just low-power. That is, they must track their power sources and the changing power and performance constraints imposed by the environment. Moreover, they must fully explore and integrate many novel power management techniques. Unfortunately, these techniques are often incompatible with each other due to overspecialized formulations or they fail to consider system-wide issues. This paper proposes a new graph-based model to integrate novel p ...

Keywords: constraint modeling, embedded systems software, power-aware real-time scheduling, system-level design

9 Requirements interaction management



William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven research ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR), system architecture, system specification, viewpoints

10 APPL/A: a language for software process programming



Stanley M. Sutton, Dennis Heimburger, Leon J. Osterweil

July 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(4.89 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software process programming is the coding of software processes in executable programming languages. Process programming offers many potential benefits, but their realization has been hampered by a lack of experience in the design and use of process programming languages. APPL/A is a prototype software process programming language developed to help gain this experience. It is intended for the coding of programs to represent and support software processes including process, product, and p ...

Keywords: consistency management, multiparadigm programming languages, software

process programming, transaction management

11 Group and Individual Time Management Tools: What You Get is Not What You Need

A. E. Blandford, T. R. G. Green

January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 4

Publisher: Springer-Verlag

Full text available:  [pdf\(250.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Some studies of diaries and scheduling systems have considered how individuals use diaries with a view to proposing requirements for computerised time management tools. Others have focused on the criteria for success of group scheduling systems. Few have paid attention to how people use a battery of tools as an ensemble. This interview study reports how users exploit paper, personal digital assistants (PDAs) and a group scheduling system for their time management. As with earlier studies, we fin ...

12 ARTS: a distributed real-time kernel



H. Tokuda, C. W. Mercer

July 1989 **ACM SIGOPS Operating Systems Review**, Volume 23 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

ARTS is a distributed real-time operating system designed for a real-time systems testbed being developed at Carnegie Mellon University. The objective of the testbed is to develop and verify advanced real-time computing technologies for a distributed environment. The testbed consists of a set of SUN3 workstations connected by a real-time network based on IEEE 802.5 Token Ring and Ethernet. The goal of the ARTS Kernel is not to produce simply a fast real-time executive, but rather to provide users ...


13 Parallel logic simulation of VLSI systems



Mary L. Bailey, Jack V. Briner, Roger D. Chamberlain

September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(3.74 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fast, efficient logic simulators are an essential tool in modern VLSI system design. Logic simulation is used extensively for design verification prior to fabrication, and as VLSI systems grow in size, the execution time required by simulation is becoming more and more significant. Faster logic simulators will have an appreciable economic impact, speeding time to market while ensuring more thorough system design testing. One approach to this problem is to utilize parallel processing, taking ...

Keywords: circuit structure, parallel architecture, parallelism, partitioning, synchronization algorithm, timing granularity

14 Effective distributed scheduling of parallel workloads



Andrea C. Dusseau, Remzi H. Arpaci, David E. Culler

May 1996 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '96**, Volume 24 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.80 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a distributed algorithm for time-sharing parallel workloads that is competitive

with coscheduling. *Implicit scheduling* allows each local scheduler in the system to make independent decisions that dynamically coordinate the scheduling of cooperating processes across processors. Of particular importance is the blocking algorithm which decides the action of a process waiting for a communication or synchronization event to complete. Through simulation of bulk-synchronous parallel a ...

15 High-performance operating system primitives for robotics and real-time control



systems

Karsten Schwan, Tom Bihari, Bruce W. Weide, Gregor Taulbee

August 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.49 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To increase speed and reliability of operation, multiple computers are replacing uniprocessors and wired-logic controllers in modern robots and industrial control systems. However, performance increases are not attained by such hardware alone. The operating software controlling the robots or control systems must exploit the possible parallelism of various control tasks in order to perform the necessary computations within given real-time and reliability constraints. Such so ...

16 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)



July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.19 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

17 Predictive engineering models based on the EPIC architecture for a multimodal high-performance human-computer interaction task



David E. Kieras, Scott D. Wood, David E. Meyer

September 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: [pdf\(368.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Engineering models of human performance permit some aspects of usability of interface designs to be predicted from an analysis of the task, and thus they can replace to some extent expensive user-testing data. We successfully predicted human performance in telephone operator tasks with engineering models constructed in the EPIC (Executive Process-Interactive Control) architecture for human information processing, which is especially suited ...

Keywords: cognitive models, usability engineering

18 Systems 1: Call and response: experiments in sampling the environment



Maxim A. Batalin, Mohammad Rahimi, Yan Yu, Duo Liu, Aman Kansal, Gaurav S. Sukhatme, William J. Kaiser, Mark Hansen, Gregory J. Pottie, Mani Srivastava, Deborah Estrin

November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Publisher: ACM Press

Full text available: [pdf\(1.38 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Monitoring of environmental phenomena with embedded networked sensing confronts the challenges of both unpredictable variability in the spatial distribution of phenomena, coupled with demands for a high spatial sampling rate in three dimensions. For example, low distortion mapping of critical solar radiation properties in forest environments may require two-dimensional spatial sampling rates of greater than 10 samples/m² over transects exceeding 1000 m². Clearly, adequate sampling coverage of ...

Keywords: adaptive sampling, distributed, mobile robotics, sensor network, task allocation

19 A comparison of ring and tree embedding for real-time group multicast

Mario Baldi, Yoram Ofek

June 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 3

Publisher: IEEE Press

Full text available:  pdf(612.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In general topology networks, routing from one node to another over a tree embedded in the network is intuitively a good strategy, since it typically results in a route length of $O(\log n)$ links, being n the number of nodes in the network. Routing from one node to another over a ring embedded in the network would result in route length of $O(n)$ links. However, in group (many-to-many) multicast, the overall number of links traversed by each packet, i.e., the networks ele ...

Keywords: communication systems, computer networks, flow control, multicast channels, multimedia communications, multimedia systems, real-time system, synchronization, timing


20 The design and performance of a real-time CORBA event service



Timothy H. Harrison, David L. Levine, Douglas C. Schmidt

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10

Publisher: ACM Press

Full text available:  pdf(2.86 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The CORBA Event Service provides a flexible model for asynchronous communication among objects. However, the standard CORBA Event Service specification lacks important features required by real-time applications. For instance, operational flight programs for fighter aircraft have complex real-time processing requirements. This paper describes the design and performance of an object-oriented, real-time implementation of the CORBA Event Service that is designed to meet these requirements. This page ...

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